

Enlivening Science Communications

June 9, 2010

You can have the greatest idea,

but if you can't communicate it,

it doesn't matter.



What's The Problem?

We live in the age of interactive multimedia...

but much of science is still stuck in dense text format.

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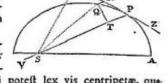
Abstract Top

Many duplicate genes maintain functional overlap despite divergence over long evolutionary time scales. Deleting one member of a paralogous pair often has no phenotypic effect, unless its paralog is also deleted. It has been suggested that this functional compensation might be mediated by active up-regulation of expression of a gene in response to deletion of its paralog. However, it is not clear how prevalent such paralog responsiveness is, nor whether it is hardwired or dependent on feedba conditions. Here, we address these questions at the genomic scale usir cytometry of single-cell protein levels in differentially labeled cocultures knockout Saccharomyces cerevisiae strains. We find that only a modest f of 202) show significant up-regulation to deletion of their duplicate genparalog-responsive proteins match almost exclusively duplicate pairs wh is required for growth. Moreover, media conditions that add or remove i function of a duplicate gene pair specifically eliminate or create paralog our results suggest that paralog responsiveness in yeast is need-based conditions in which the gene function is required. Physiologically, such n could provide an adaptive mechanism for compensation of genetic, envi perturbations in protein abundance.

PHILOSOPHIÆ NATURALIS.

De More Corol. 4. lifdem positis, est vis centripeta ut velocitas bis directe, & chorda illa inverse. Nam velocitas est reciproce ut perpendiculum 57 per corol. 1. prop. 1.

Corol. 5. Hinc fidetur figura quævis curvilinca APQ, & in ea detur etiam punctum S, ad quod vis cen-

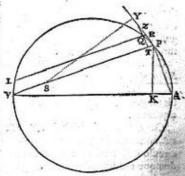


tripeta perpetuo dirigitur, inveniri potest lex vis centripetae, quacorpus quodvis P a cursu rectilineo perpetuo retractum in figuræ illius perimetro detinebitur, eamque revolvendo describet. Nimirum computandum est vel solidum $\frac{SPq \times QTq}{QR}$ vel solidum STq× PV huic vi reciproce proportionale. Ejus rei dabimus exempla: in problematis fequentibus.

PROPOSITIO VII. PROBLEMA II.

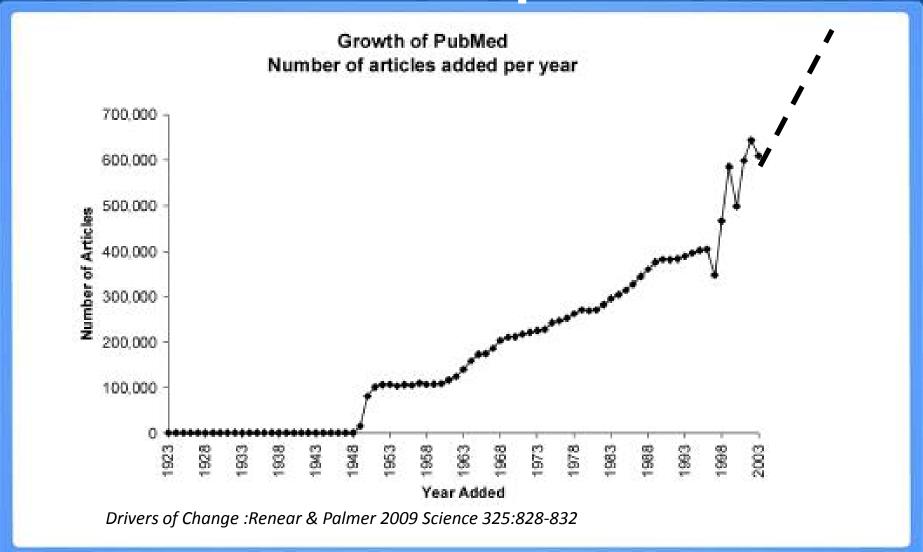
Gyretur corpus in circumferentia circuli, requiritur lex vis. centripete tendentis ad punctum quodcunque datum.

Esto circuli circumferentia VOPA; punctum datum, ad quod vis ceu ad centrum fuum tendit, S; corpus in circumferentia latum P; locus proximus, in quem movebitur 2; & circuli tangens ad locum priorem PRZ. Per punctum & ducatur chorda PV; & acta circuli diametro V.A. jungatur AP : & ad 5P demittatur perpendiculum QT, quod productum occurrat tangenti PR in Z; ac de-

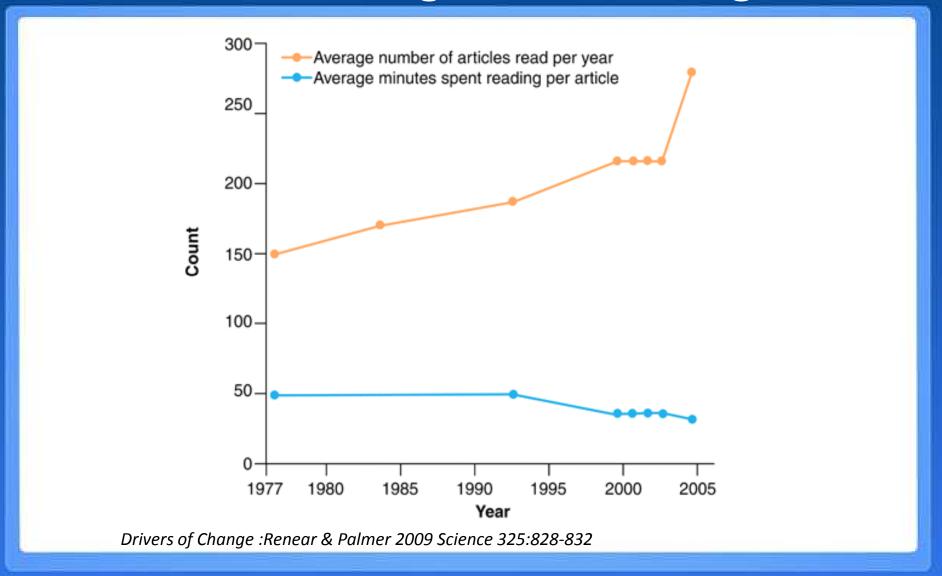


nique per punctum Q agatur LR, quæ ipfi SP parallella fit, & occurrat tum circulo in L, tum tangenti PZ in R. Et ob similia triangula ZQR, ZTP, VPA; crit RP quad. hoc eft QRL ad 1

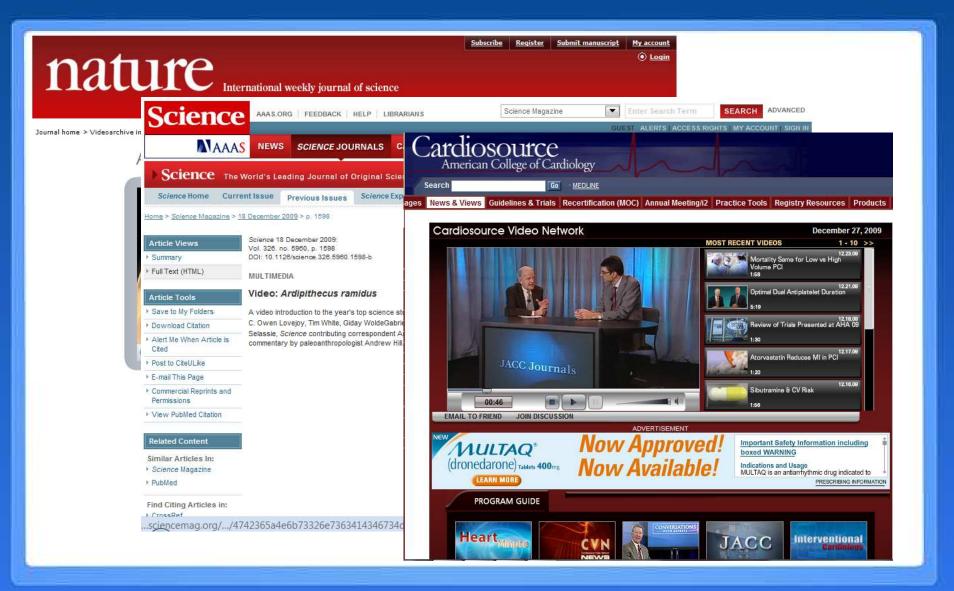
Content Explosion



We Are Scanning More Reading Less



The Future is Now



What Do We Do?

Provide rich media platform solutions to the STM market

- Publishing
- Distribution
- Hosting & repository

Journals Publishers





Applications

- Peer review articles
- Supplements
- Conferences
- E-learning
- Book review
- Media
- Public policy
- K-12 outreach

Benefits

STM institutions need to have integrated multimedia online presence to retain and grow audiences

Authors & Viewers

- More engaged
- Higher retention
- More productive
- Broader recognition

Publishers

- Higher article views, traffic, & longer stays
- Expand audience & impact
- Promote authors
- New products & monetization

SciVee Platform

Enable video to be integral part of online presence

- Easy, fast and cost-effective
- All done on SciVee site in browser
- No special equipment or software needed
- Minimal resources needed by publishers
- Simple QA/peer-review facility
- Easily integrated into publishing workflow

Services

Free

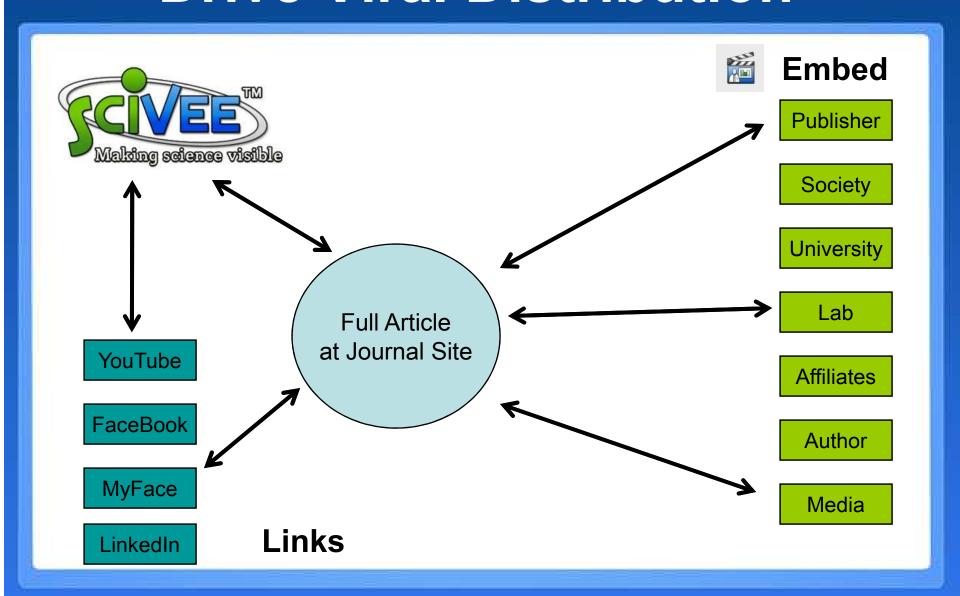
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 Workflow

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Drive Viral Distribution



Selected Users

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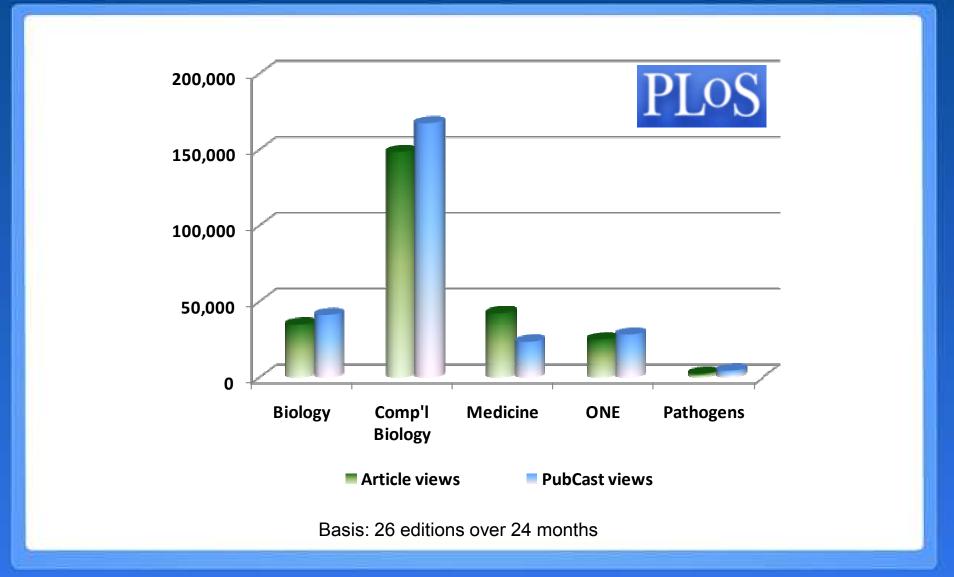




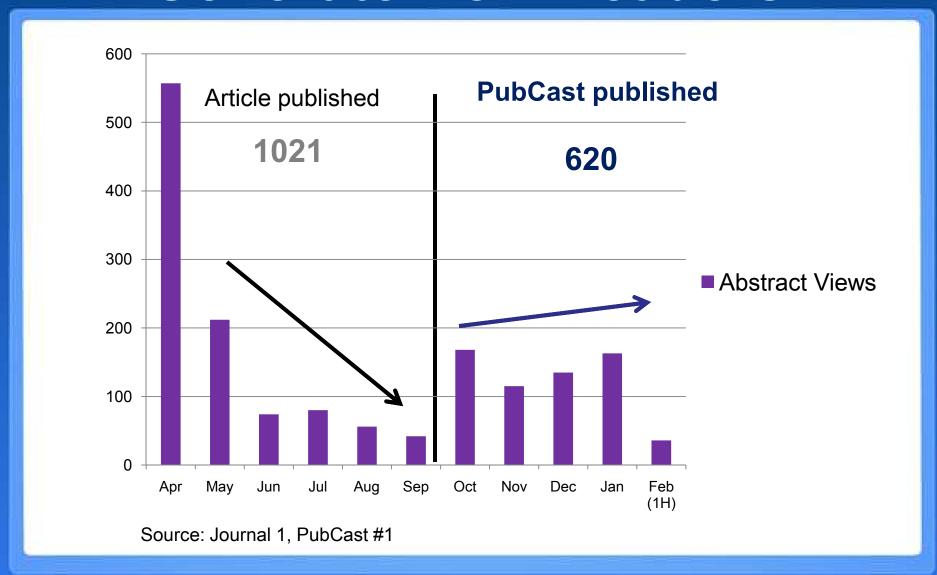




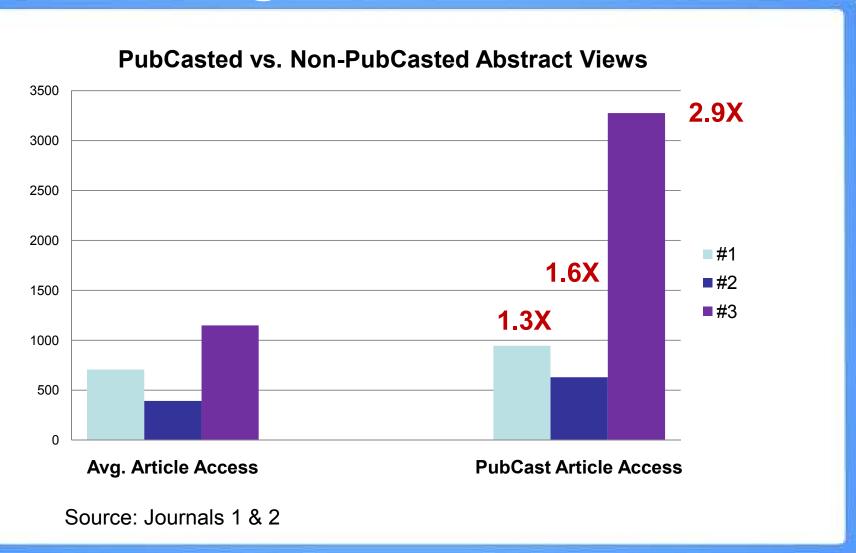
Double Online Views



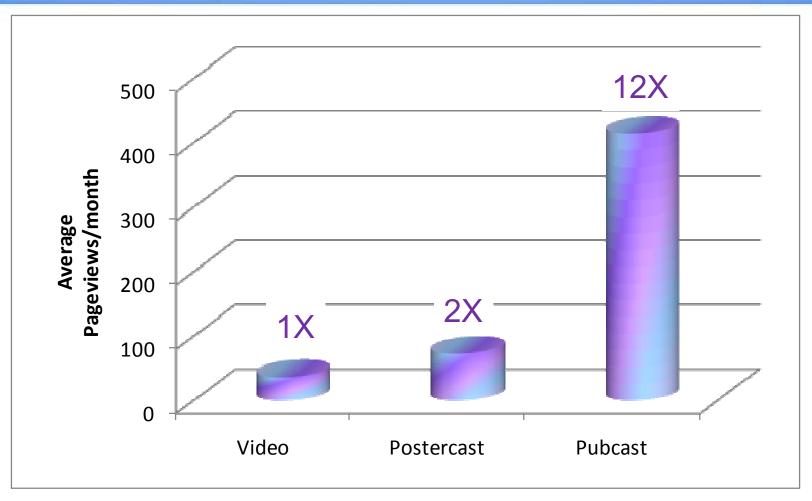
Generate New Readers



Driving Abstract Views



PubCasts Drive Pageviews



Source: SciVee website, March 2010

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